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## COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled PROCESS FOR FLASH CARBONIZATION OF BIOMASS, the specification of which:

☐ is attached hereto.

☒ was filed on May 20, 2002 as Application Serial No. 10/152,276 and was amended on \_\_\_\_\_

☐ was described and claimed in PCT International Application No. \_\_\_\_\_ filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e)(1) of any United States provisional application listed below:

U.S. Serial No.	Filing Date	Status
60/302,100	June 28, 2001	Pending

I hereby appoint the Practitioners at Customer Number 26181 to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Direct all correspondence and all telephone calls to Customer Number



26181

Please direct all telephone calls to Reginald J. Suyat at (925) 906-1322.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full Name of Inventor: MICHAEL J. ANTAL, JR.

Inventor's Signature: \_\_\_\_\_

Residence Address: \_\_\_\_\_

Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

Michael J. Antal, Jr.  
Honolulu, Hawaii  
U.S.A.  
358 Opihikao Place  
Honolulu, HI 96825

Date: 1 Aug 2002



07136/010001

RJ.

DECEMBER 02, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and  
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REGINALD J. SUYAT  
500 ARGUELLO STREET, SUITE 500  
REDWOOD CITY, CA 94063

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RECORDATION DATE: 09/09/2002

REEL/FRAME: 013272/0272  
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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

## ASSIGNOR:

ANTAL, JR., MICHAEL J.

DOC DATE: 08/06/2002

## ASSIGNEE:

HAWAII, UNIVERSITY OF  
2800 WOODLAWN DRIVE, SUITE 280  
MANOA INNOVATION CENTER  
HONOLULU, HAWAII 96822

SERIAL NUMBER: 10152276  
PATENT NUMBER:

FILING DATE: 05/20/2002  
ISSUE DATE:

JEEVON JONES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

* No Docketing Required *
Reviewed By Practice Systems
Initials: J-w
Reviewed By Billing Secretary
Initials: _____

09-13-2002

Substitute Form PTO-1595  
Attorney Docket No.: 07136-010001

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HEET

102221018

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1. Name of conveying party(ies): Michael J. Antal, Jr. <b>9-9-02</b> Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): University of Hawaii Manoa Innovation Center 2800 Woodlawn Drive, Suite 280 Honolulu, HI 96822 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 08/06/2002	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: 10/152,276 Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	B. Patent No(s).:  FINANCE SECTION SEP - 9 AM 7:11 OFFICE OF PUBLIC RECORDS
5. Name/address of party to whom correspondence concerning document should be mailed: REGINALD J. SUYAT Fish & Richardson P.C. 500 Arguello Street, Suite 500 Redwood City, California 94063	6. Total number of applications/patents involved: 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
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Total number of pages including coversheet, attachments and document: Three	

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## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

8/22/02  
Date of DepositValerie Olsen  
SignatureValerie Olsen  
Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, I, MICHAEL J. ANTAL, JR. of 358 Opihikao Place  
Honolulu, HI 96825, hereby assign to:

University of Hawaii, a Hawaiian corporation having a place of business at:

Manoa Innovation Center  
2800 Woodlawn Drive, Suite 280  
Honolulu, HI 96822; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me, entitled PROCESS FOR FLASH CARBONIZATION OF BIOMASS, filed May 20, 2002, and assigned U.S. Serial Number 10/152,276, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Honolulu, Hawaii,  
this 6<sup>th</sup> day of August, 2002

Michael J. Antal, Jr. L.S.  
MICHAEL J. ANTAL, JR.

State of Hawaii :

: ss.

County of Honolulu :

Before me this 6<sup>th</sup> day of August, 2002, personally  
appeared MICHAEL J. ANTAL, JR. known to me to be the person whose name is subscribed to  
the foregoing Assignment and acknowledged that he executed the same as his free act and deed  
for the purposes therein contained.

Susan Higa Susan Higa  
Notary Public

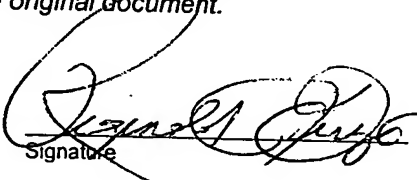
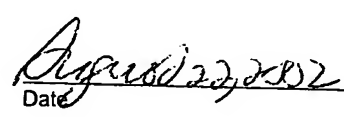
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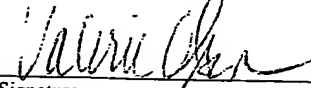
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Valerie Olsen  
Typed Name of Person Signing Certificate